Subject: Re: NCDF_IS_NCDF

Posted by Michael Galloy on Fri, 22 Jan 2016 23:07:04 GMT

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On 1/22/16 1:04 PM, KH wrote:
> On Friday, January 22, 2016 at 2:48:38 PM UTC-5, Mike Galloy wrote:
>> On 1/22/16 12:26 PM, kimberly.hyde@noaa.gov wrote:
>>> On Friday, January 22, 2016 at 2:20:25 PM UTC-5, kimber...@noaa.gov
>>> wrote:
>>> On Thursday, January 21, 2016 at 10:26:36 PM UTC-5, Michael Galloy
>>>> wrote:
>>>> On 1/21/16 1:21 PM, KH wrote:
>>>> >> Hello.
>>>> >>
>>>> >> Is there a netcdf equivalent to HDF_ISHDF? I am basically
>>>> >> looking for a way to test if a file is a netcdf file before
>>>> >> trying to open the file (and the having the program crash
>>>> >> because it isn't actually a netcdf file).
>>>> >
>>>> Yes, I would normally recommend just trying to open the file and
>>>> catching the error if it fails, but, as you noted, it actually
>>>> crashes IDL:
>>>> >
>>>> IDL> id = ncdf_open(filename) Assertion failed: (0), function
>>>> NC4_open, file nc4file.c, line 2696. Abort trap: 6
>>>> >
>>>> Are your files netCDF 4 files? You can use H5F_IS_HDF5 if you
>>>> don't want pre-4 netCDF files:
>>>> >
>>>> IDL> help, h5f_is_hdf5(file_which('ncgroup.nc')) <Expression>
>>>> LONG
                         1 IDL> help,
>>> > h5f_is_hdf5(file_which('sample.nc')) <Expression> LONG
>>>> > 0
>>>> >
>>>>>
>>>> Mike -- Michael Galloy www.michaelgalloy.com Modern IDL: A Guide
>>>> to IDL Programming (http://modernidl.idldev.com)
>>>>
>>> These particular files are netcdf4 so I can use the H5f program,
>>>> but not all of my files are netcdf4 so I was hoping to find a way
>>> to automatically test what type of files they are. Thanks for your
>>> assistance, Kim
>>>
>>>
>>> In the end, I am mainly trying to quickly determine if the netcdf
>>> files I downloaded are corrupt or incomplete. That way if they are
>>> bad, I can remove them so that they don't crash during subsequent
>>> processing. Currently I am opening the file and then using
```

```
>>> NCDF_INQUIRE to get the basic structure information, but if there is
>>> an easier way to check the file, I am open for ideas.
>>>
>>> Kim
>>>
>>
>> I have a routine, MG_NC_ISNCDF, in my library mglib (at
>> github.com/mgalloy/mglib). You have to build the library to get the
>> routine (and, of course, put the location of where the DLM is installed
>> into your IDL DLM path). You will need the netCDF, HDF5, curl, libsz,
>> and libz libraries installed. Change the paths to the proper locations,
>> but something like the following should work for your system:
>>
>> mkdir build
>> cd build
>>
>> cmake \
      -DCMAKE_INSTALL_PREFIX:PATH=~/software/mglib \
>>
      -DNETCDF INCLUDE DIR:PATH=/usr/local/include \
>>
      -DNETCDF LIBRARY:PATH=/usr/local/lib/libnetcdf.a \
>>
      -DHDF5 LIBRARY:PATH=/usr/local/lib/libhdf5.a \
>>
      -DHDF5 LA LIBRARY:PATH=/usr/local/lib/libhdf5 hl.a \
>>
      -DCURL_LIBRARY:PATH=/usr/lib/libcurl.dylib \
>>
      -DSZ LIBRARY:PATH=/usr/local/lib/libsz.a \
>>
      -DZ_LIBRARY:PATH=/usr/lib/libz.dylib \
>>
>>
>>
>> Mike
>> --
>> Michael Galloy
>> www.michaelgalloy.com
>> Modern IDL: A Guide to IDL Programming (http://modernidl.idldev.com)
>
> Hello Mike.
> Is this a C program or IDL? It definitely isn't clear to me how to
implement this. All I really know is basic IDL and the code in the
program doesn't look familiar to me.
> Kim
>
It's a DLM written in C that can be called from IDL. The code above is
what you would type at the (system) command line, after grabbing the
source code from my library, to configure on your system.
Mike
```

www.michaelgalloy.com

Michael Galloy

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